

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>030043 AC</b>	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, Item 5 below.	
International application No. <b>PCT/EP2005/003080</b>	International filing date (day/month/year) <b>23/03/2005</b>	(Earliest) Priority Date (day/month/year) <b>27/03/2004</b>
Applicant <b>UMICORE AG &amp; CO. KG</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

### 1. Basis of the report

a. With regard to the language, the International search was carried out on the basis of the International application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the title,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

**NITROGEN OXIDE STORAGE MATERIAL AND NITROGEN OXIDE STORAGE CATALYST PRODUCED THEREFROM**

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. \_\_\_\_\_

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☒ none of the figures is to be published with the abstract.

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC 7 B01D53/94 B01J23/58 B01J23/63 B01J21/00

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01D B01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 883 783 A (BURK, JR. ET AL) 28 November 1989 (1989-11-28) column 2, line 39 - column 3, line 21 column 3, line 46 - line 61 examples 6-9 claims 1,2,8,11	1-7
X	EP 0 945 165 A (DEGUSSA-HUELS AKTIENGESSELLSCHAFT; OMG AG & CO. KG) 29 September 1999 (1999-09-29) claims 1-3,6	1-7
A	EP 1 317 953 A (UMICORE AG & CO. KG) 11 June 2003 (2003-06-11)	
A	EP 1 316 354 A (OMG AG & CO. KG) 4 June 2003 (2003-06-04)	
	-/--	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.**\* Special categories of cited documents:**

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

15 July 2005

Date of mailing of the international search report

12/09/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.  
Fax: (+31-70) 340-3016

Authorized officer

Holzwarth, A

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 016 448 A (TOYOTA JIDOSHA KABUSHIKI KAISHA) 5 July 2000 (2000-07-05) -----	

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4883783	A	28-11-1989	US 4735705 A	05-04-1988
EP 0945165	A	29-09-1999	DE 19813655 A1	25-11-1999
			AT 251939 T	15-11-2003
			AU 747495 B2	16-05-2002
			AU 2244099 A	07-10-1999
			BR 9901205 A	18-01-2000
			CA 2267054 A1	27-09-1999
			CN 1234289 A ,C	10-11-1999
			CZ 9901051 A3	17-11-1999
			DE 59907331 D1	20-11-2003
			EP 0945165 A2	29-09-1999
			JP 11319481 A	24-11-1999
			PL 332228 A1	11-10-1999
			RU 2217222 C2	27-11-2003
			TR 9900708 A2	21-10-1999
			US 6338831 B1	15-01-2002
			ZA 9902323 A	30-09-1999
EP 1317953	A	11-06-2003	EP 1316354 A1	04-06-2003
			EP 1317953 A1	11-06-2003
			BR 0207597 A	02-12-2003
			CA 2413171 A1	30-05-2003
			CN 1457921 A	26-11-2003
			JP 2003210988 A	29-07-2003
			US 2003125202 A1	03-07-2003
			ZA 200209686 A	09-07-2003
EP 1316354	A	04-06-2003	EP 1316354 A1	04-06-2003
			BR 0207597 A	02-12-2003
			CA 2413171 A1	30-05-2003
			CN 1457921 A	26-11-2003
			EP 1317953 A1	11-06-2003
			JP 2003210988 A	29-07-2003
			US 2003125202 A1	03-07-2003
			ZA 200209686 A	09-07-2003
EP 1016448	A	05-07-2000	JP 3575307 B2	13-10-2004
			JP 2000189799 A	11-07-2000
			EP 1016448 A1	05-07-2000
			US 6372688 B1	16-04-2002